a radio frequency measurement report as measured by one of the UAV or UAC; or

radio resource control (RRC) status of the UAC.

8. The non-transitory memory medium of claim 7,

wherein UAV navigational properties includes one or more of:

UAV speed;

UAV orientation; or

UAV altitude; and

wherein GPS information includes one or more of:

a current position or location of the UAV; or

a destination location or destination coordinates of the UAV.

9. The non-transitory memory medium of claim 6, wherein event tracking information includes:

a C2 communication mode change request; and

a cause code associated with the C2 communication mode change request; and

wherein the cause code includes at least one of:

a UAC control release cause code;

a UAC control suspend cause code;

a UAC control resume cause code; or

a UAC lost cause code.

10. An apparatus, comprising:

a memory; and

a processing element in communication with the memory, wherein the processing element is configured to:

receive, from a network entity, tracking information associated with an unmanned aerial vehicle (UAV) and/or a UAV controller (UAC) associated with the UAV, wherein the UAV is in a first control mode supported by communications between the UAV and the UAC via a radio access network, and wherein the tracking information includes at least one of a UAV identifier (UAV ID) associated with the UAV or a UAC identifier (UAC ID) associated with the UAC;

determine, based on the tracking information associated with the UAV, to switch the UAV from the first control mode to a second control mode, wherein the second control mode is supported by communications between the UAV and the apparatus; and

send, to the network entity, a control mode change request, wherein the control mode change request includes at least one of the UAV ID or UAC ID.

11. The apparatus of claim 10,

wherein the control mode change request includes an indication of a cause or reason for the control mode change request, wherein a first cause code is associated with a power level of the UAC dropping below a threshold, wherein a second cause code is associated with the UAC detecting or determining entry of the UAV into a designated area, wherein a third cause code is associated with the UAC detecting or determining exiting of the UAV from a designated area, and wherein a fourth cause code is associated with the UAV not receiving any C2 commands from the UAC within a specified period of time.

12. The apparatus of claim 10,

wherein the tracking information is at least one of periodic tracking information or event tracking information. 13. The apparatus of claim 12,

wherein periodic tracking information includes at least one of:

UAV navigational properties;

a cell identifier associated with the UAV;

a tracking area code (TAC) identifier associated with the UAV;

global positioning system (GPS) information associated with the UAV;

a C2 link communication quality as reported by one of the UAV or UAC;

a radio frequency measurement report as measured by one of the UAV or UAC; or

radio resource control (RRC) status of the UAC; and wherein event tracking information includes:

a C2 communication mode change request; and

a cause code associated with the C2 communication mode change request.

14. The apparatus of claim 13,

wherein UAV navigational properties includes one or more of:

UAV speed;

UAV orientation; or

UAV altitude: and

wherein GPS information includes one or more of:

a current position or location of the UAV; or

a destination location or destination coordinates of the

15. A unmanned aerial vehicle (UAV), comprising: one or more antennas;

one or more radios, wherein each of the one or more radios is configured to perform cellular communication using at least one radio access technology (RAT);

one or more processors coupled to the one or more radios, wherein the one or more processors and the one or more radios are configured to perform voice and/or data communications;

wherein the one or more processors are configured to cause the UAV to:

send, to a network entity, tracking information associated with the UAV and/or a UAV controller (UAC) associated with the UAV, wherein the UAV is in a Network-Assisted control mode, and wherein the tracking information includes at least one of a UAV identifier (UAV ID) associated with the UAV or a UAC identifier (UAC ID) associated with the UAC;

receive, from the network entity, a control mode change request indicating a switch of the UAV from the Network-Assisted control mode to a UTM-Navigated control mode, wherein the control mode change request includes at least one of the UAV ID or UAC ID; and

send, to the network entity, a control mode change confirmation, wherein the control mode change request includes at least one of the UAV ID or UAC ID.

16. The UAV of claim 15,

wherein the tracking information includes event-based tracking information, and wherein the event-based tracking information includes:

a C2 communication mode change request; and

a cause code associated with the C2 communication mode change request; and